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<div style="position: relative; width: 150px; margin: 0 auto;"> <div style="position: absolute; top: -40px; left: 0; right: 0; text-align: center;"> UIPE MAR 07 2005 <small>UNITED STATES PATENT & TRADEMARK OFFICE</small> </div> </div>		ATTY. DOCKET NO. 2072.0010006/LBB/SJE
INFORMATION DISCLOSURE STATEMENT		APPLICATION NO. 10/686,713
		FIRST NAMED INVENTOR Hanna, M.M.
		FILING DATE October 17, 2003
		ART UNIT 1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
YK	AA1	3,996,345	12/07/1976	Ullman <i>et al.</i>			06/30/1975
↓	AB1	4,351,760	09/28/1982	Khanna <i>et al.</i>			09/07/1979
	AC1	4,582,788	04/15/1986	Erlach			01/07/1983
	AD1	4,683,194	07/28/1987	Saiki <i>et al.</i>			03/28/1985
	AE1	4,739,044	04/19/1988	Stabinsky			06/13/1985
	AF1	4,757,141	07/12/1988	Fung <i>et al.</i>			08/26/1985
	AG1	4,786,600	11/22/1988	Kramer <i>et al.</i>			05/25/1984
	AH1	5,130,238	07/14/1992	Malek <i>et al.</i>			08/23/1989
	AI1	5,169,766	12/08/1992	Schuster <i>et al.</i>			06/14/1991
	AJ1	5,399,491	03/21/1995	Kacian <i>et al.</i>			03/19/1992
	AK1	5,503,979	04/02/1996	Kramer <i>et al.</i>			08/26/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
YK	AL1	WO 89/01050	02/09/1989	WIPO			Yes No
↓	AM1	WO 03/038042 A2	05/08/2003	WIPO			Yes No
	AN1	WO 04/096997	11/11/2004	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

YK	AR	1	Agrawal, S. and Tang, J.Y., "Site-specific functionalization of oligodeoxynucleotides for non-radioactive labeling," <i>Tetrahedron Lett.</i> 31:1543-1546, Pergamon Press (1990)
YK	AS	1	Antequerra, F. and Bird, A., "Number of CpG islands and genes in human and mouse," <i>Proc. Natl. Acad. Sci. USA</i> 90:11995-11999, National Academy of Sciences (1993)
YK	AT	1	Callahan, R., <i>et al.</i> , "Frequent Mutations in Breast Cancer," <i>Ann. N.Y. Acad. Sci.</i> 698:21-30, New York Academy of Sciences (1993)

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YK	AA2	5,508,178	04/16/1996	Rose <i>et al.</i>			02/09/1994
	AB2	5,554,516	09/10/1996	Kacian <i>et al.</i>			12/02/1993
	AC2	5,571,669	11/05/1996	Lu <i>et al.</i>			01/14/1993
	AD2	5,595,891	01/21/1997	Rose <i>et al.</i>			07/19/1990
	AE2	5,648,211	07/15/1997	Fraiser <i>et al.</i>			04/18/1994
	AF2	5,654,142	08/05/1997	Kievits <i>et al.</i>			03/14/1995
	AG2	5,679,512	10/21/1997	Laney <i>et al.</i>			08/20/1993
	AH2	5,683,879	11/04/1997	Laney <i>et al.</i>			06/07/1995
	AI2	5,744,308	04/28/1998	Guillou-Bonnici <i>et al.</i>			07/26/1995
	AJ2	5,766,849	06/16/1998	McDonough <i>et al.</i>			11/28/1994
	AK2	5,824,517	10/20/1998	Cleuziat <i>et al.</i>			05/16/1997

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YK	AR	2	Chamberlin, M.J., "Bacterial DNA-Dependent RNA Polymerases," in The Enzymes, Boyer, P.D., ed., Academic Press, New York, N.Y. pp. 61, 84-86 (1982)
YK	AS	2	Cheung, V.G., <i>et al.</i> , "A resource of mapped human bacterial artificial chromosome clones," <i>Genome Research</i> 9:983-993, Cold Spring Laboratory Press (1999)
YK	AT	2	Cifone, M.A. and Fidler, I.J., "Increasing metastatic potential is associated with increasing genetic instability of clones isolated from murine neoplasms," <i>Proc. Natl. Acad. Sci. USA</i> 78:6949-6952, National Academy of Sciences (1981)

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YK	AA3	5,858,801	10/12/1999	Brizzolara			03/13/1997
	AB3	5,888,819	03/30/1999	Goelet <i>et al.</i>			03/05/1991
	AC3	6,008,334	12/28/1999	Hanna			07/23/1997
	AD3	6,107,037	08/22/2000	Sousa <i>et al.</i>			06/19/1998
	AE3	6,107,039	08/22/2000	Hanna			10/02/1998
	AF3	6,114,519	07/05/2000	Cole <i>et al.</i>			10/15/1997
	AG3	6,251,594	06/26/2001	Gonzalgo <i>et al.</i>			06/09/1998
	AH3	2002/0168641	11/14/2002	Mortensen <i>et al.</i>			03/09/2001
	AI3	2003/0099950 A1	05/29/2003	Hanna			10/30/2001
	AJ3	2004/0054162 A1	03/18/2004	Hanna			04/29/2003
	AK3	2004/0137461 A1	07/15/2004	Hanna			06/23/2003

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YK	AR	<u>3</u>	Costas, C., <i>et al.</i> , "RNA-protein crosslinking to AMP residues at internal positions in RNA with a new photocrosslinking ATP analog," <i>Nucleic Acids Res.</i> 28:1849-1858, Oxford University Press (May, 2000)
YK	AS	<u>3</u>	Daube, S.S. and von Hippel, P.H., "Functional Transcription Elongation Complexes from Synthetic RNA-DNA Bubble Duplexes," <i>Science</i> 258:1320-1324, American Association for the Advancement of Science (1992)
YK	AT	<u>3</u>	Dunn, J.J. and Studier, F.W., "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," <i>J. Mol. Biol.</i> 166:477-535, Academic Press, Inc. (1983)

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YK	AA4	2004/0234996 A1	11/25/2004	Hanna			06/24/2003
↓	AB4	2004/0157257 A1	08/12/2004	Hanna			03/03/2004
	AC4	2005/0026150 A1	02/03/2005	Hanna			06/27/2003
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YK	AR	<u>4</u>	Esteller, M., <i>et al.</i> , "Promoter Hypermethylation and BRCA1 Inactivation in Sporadic Breast and Ovarian Tumors," <i>J. Natl. Cancer Inst.</i> 92:564-569, Oxford University Press (April, 2000). (Retrieved from LexisNexis Academic database)
YK	AS	<u>4</u>	Frommer, M., <i>et al.</i> , "A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:1827-1831, National Academy of Sciences (1992)
YK	AT	<u>4</u>	Gait, M.J., <i>et al.</i> , "Oligoribonucleotide synthesis," in <i>Oligonucleotides and Analogues</i> , Eckstein, F., ed., Oxford University Press, Oxford, Great Britain, pp. 25-31 (1992)

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YK	AR	<u>5</u>	Gait, M.J., "An Introduction to Modern Methods of DNA Synthesis," in Oligonucleotide synthesis: a practical approach, Gait, M.J., ed., Oxford University Press, Oxford, Great Britain, pp.1-22 (1984)
YK	AS	<u>5</u>	Geider, K., et al., "An RNA transcribed from DNA at the origin of phage fd single strand to replicative form conversion," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 75:645-649, National Academy Press (1978)
YK	AT	<u>5</u>	Giusti, W.G. and Adriano, T., "Synthesis and Characterization of 5'-Fluorescent-dye-labeled Oligonucleotides," <i>PCR Methods Appl.</i> 2:223-227, Cold Spring Harbor Laboratory Press (1993)

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YK	AR	<u>6</u>	Guatelli, J.C., <i>et al.</i> , "Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 87:1874-1878, National Academy Press (1990)
YK	AS	<u>6</u>	Gupta, K.C., <i>et al.</i> , "A general method for the synthesis of 3'-sulfhydryl and phosphate group containing oligonucleotides," <i>Nucleic Acids Res.</i> 19:3019-3025, Oxford University Press (1991)
YK	AT	<u>6</u>	Gurevich, V.V., <i>et al.</i> , "Preparative in Vitro mRNA Synthesis Using SP6 and T7 RNA Polymerases," <i>Anal. Biochem.</i> 195:207-213, Academic Press, Inc. (1991)

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YK	AR	<u>1</u>	Hanna, M.M., "Photoaffinity Cross-Linking Methods for Studying RNA-Protein Interactions," <i>Methods Enzymol.</i> 180:383-409, Academic Press, Inc. (1989)
YK	AS	<u>1</u>	Hanna, M.M., <i>et al.</i> , "Probing the environment of nascent RNA in Escherichia coli transcription elongation complexes utilizing a new fluorescent ribonucleotide analog," <i>Nucleic Acids Res.</i> 27:1369-1376, Oxford University Press (1999)
YK	AT	<u>1</u>	Hanna, M.M., <i>et al.</i> , "Synthesis and characterization of a new photocrosslinking CTP analog and its use in photoaffinity labeling E.coli and T7 RNA polymerases," <i>Nucleic Acids Res.</i> 21:2073-2079, Oxford University Press (1993)

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YK	AR	<u>8</u>	He, B., <i>et al.</i> , "Preparation of probe-modified RNA with 5-mercapto-UTP for analysis of protein-RNA interactions," <i>Nucleic Acids Res.</i> 23:1231-1238, Oxford University Press (1995)
YK	AS	<u>8</u>	Herman, J.G., <i>et al.</i> , "Inactivation of the <i>CDKN2/p16/MTS1</i> gene is frequently associated with aberrant DNA methylation in all common human cancers," <i>Cancer Res.</i> 55:4525-4530, American Association for Cancer Research (1995)
YK	AT	<u>8</u>	Herman, J.G., <i>et al.</i> , "Incidence and functional consequences of <i>hMLH1</i> promoter hypermethylation in colorectal carcinoma," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 95:6870-6875, National Academy of Sciences (1998)

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YK	AR	9	Horii, A., <i>et al.</i> , "Frequent Replication Errors at Microsatellite Loci in Tumors of Patients with Multiple Primary Cancers," <i>Cancer Res.</i> 54:3373-3375, American Association for Cancer Research (1994)
YK	AS	9	Issa, J.P.J., <i>et al.</i> , "Methylation of the oestrogen receptor CpG island links ageing and neoplasia in human colon," <i>Nat. Genet.</i> 7:536-540, Nature Publishing Co. (1994)
YK	AT	9	Jin, D.J., "An Escherichia coli RNA Polymerase Defective in Transcription due to its Overproduction of Abortive Initiation Products," <i>J. Mol. Biol.</i> 236:72-80, Academic Press Limited (1994)

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YK	AR	<u>10</u>	Kwoh, D.Y., <i>et al.</i> , "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 86:1173-1177, National Academy Press (1989)
YK	AS	<u>10</u>	Langer, P.R., <i>et al.</i> , "Enzymatic synthesis of biotin-labeled polynucleotides: Novel nucleic acid affinity probes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 78:6633-6637, National Academy of Sciences (1981)
YK	AT	<u>10</u>	Lewis, M.K. and Burgess, R.R., "Transcription of Simian Virus 40 DNA by Wheat Germ RNA Polymerase II," <i>J. Biol. Chem.</i> 255:4928-4936, American Society for Biochemistry and Molecular Biology (1980)

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YK	AR	11	Loeb, L.A., "Mutator Phenotype May Be Required for Multistage Carcinogenesis," <i>Cancer Res.</i> 51:3075-3079, American Association for Cancer Research (1991)
YK	AS	11	Marcini, D., <i>et al.</i> , "Constitutively methylated CpG dinucleotides as mutation hot spots in the retinoblastoma gene (RB1)," <i>Amer. J. Hum. Genet.</i> 61:80-87, University of Chicago Press (1997)
YK	AT	11	Martin, C.T., <i>et al.</i> , "Processivity in Early Stages of Transcription by T7 RNA Polymerase," <i>Biochemistry</i> 27:3966-3974, American Chemical Society (1988)

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YK	AR	<u>12</u>	Meinkoth, J. and Wahl, G., "Hybridization of Nucleic Acids Immobilized on Solid Supports," <i>Anal. Biochem.</i> 138:267-284, Academic Press, Inc. (1984)
YK	AS	<u>12</u>	Meyer, K.L. and Hanna, M.M., "Synthesis and Characterization of a New 5-Thiol-Protected Deoxyuridine Phosphoramidite for Site-Specific Modification of DNA," <i>Bioconjugate Chem.</i> 7:401-412, American Chemical Society (1996)
YK	AT	<u>12</u>	Milligan, J.F. and Uhlenbeck, O.C., "Synthesis of Small RNAs Using T7 RNA Polymerase," <i>Methods Enzymol.</i> 180:51-62, Academic Press, Inc. (1989)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

YK	AR	13	Montemagno, C. and Bachand, G., "Constructing nanomechanical devices powered by biomolecular motors," <i>Nanotechnology</i> 10:225-231, IOP Publishing, Ltd. (1999)
YK	AS	13	Mullis, K., <i>et al.</i> , "Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 51:263-273, Cold Spring Harbor Laboratory (1986)
YK	AT	13	Mullis, K.B., <i>et al.</i> , "The Polymerase Chain Reaction: Why It Works," in <i>Polymerase Chain Reaction</i> , Erlich, H.A., <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Woodbury, N.Y., pp. 237-243 (1989)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2072.0010006/LBB/SJE	APPLICATION NO. 10/686,713
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YK	AR	<u>14</u>	Nelson, P.S., <i>et al.</i> , "Bifunctional oligonucleotide probes synthesized using a novel CPG support are able to detect single base pair mutations," <i>Nucleic Acids Res.</i> 17:7187-7194, Oxford University Press (1989)
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YK	AT	<u>14</u>	Palmisano, W.A., <i>et al.</i> , "Predicting Lung Cancer by Detecting Aberrant Promoter Methylation in Sputum," <i>Cancer Res.</i> 60:5954-5958, American Association for Cancer Research (November, 2000)

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YK	AR	<u>15</u>	Pringsheim, P., "Fluorescence of organic compounds," in Fluorescence and phosphorescence, Pringsham, P., ed., Interscience Publishers, Inc. New York, N.Y., pp. 392-397, 420-423 (1949)
YK	AS	<u>15</u>	Radlowski, M. and Job, D., "Effect of disulfide and sulfhydryl reagents on abortive and productive elongation catalyzed by Escherichia coli RNA polymerase," <i>Acta Biochim. Pol.</i> 41:415-419, Panstwowe Wydawnictwo Naukowe (1994)
YK	AT	<u>15</u>	Rice, J.C., <i>et al.</i> , "Aberrant methylation of the BRCA1 CpG island promoter is associated with decreased BRCA1 mRNA in sporadic breast cancer cells," <i>Oncogene</i> 17:1807-1812, Stockton Press (1998)

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YK	AS	<u>16</u>	Saiki, R.K., <i>et al.</i> , "Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988)
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YK	AR	17	Sinha, N.D. and Striepeke, S., "Oligonucleotides with reporter groups attached to the 5'-terminus," in Oligonucleotides and Analogs: A Practical Approach, Eckstein, F., ed., Oxford University Press pp. 185-189, 200-201 (1992)
YK	AS	17	Smithies, O., <i>et al.</i> , "Detection of Targeted Gene Modifications by Polymerase Chain Reaction," in Polymerase Chain Reaction, Erlich, H.A., et al., eds., Cold Spring Harbor Laboratory Press, Woodbury, N.Y., pp. 199-203 (1989)
YK	AT	17	Sproat, B.S., <i>et al.</i> , "The synthesis of protected 5'-mercapto-2',5'-dideoxyribonucleoside-3'-O-phosphoramidites; uses of 5'-mercapto-oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> 15:4837-4848, Oxford University Press (1987)

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YK	AR	<u>18</u>	Tlsty, T.D., <i>et al.</i> , "Differences in the rates of gene amplification in nontumorigenic and tumorigenic cell lines as measured by Luria-Delbrück fluctuation analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 86:9441-9445, National Academy of Sciences (1989)
YK	AS	<u>18</u>	Toyota, M. and Issa, J.P.J., "CpG island methylator phenotypes in aging and cancer," <i>Semin. Cancer Biol.</i> 9:349-357, Academic Press (1999)
YK	AT	<u>18</u>	Toyota, M. and Issa, J.P.J., "The role of DNA hypermethylation in human neoplasia," <i>Electrophoresis</i> 21:329-333, Wiley-VCH Verlag GmbH (January, 2000)

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YK	AR	<u>19</u>	Vogelstein, B. and Kinzler, K.W., "The multistep nature of cancer," <i>Trends Genet.</i> 9:138-141, Elsevier Science Publishers Ltd. (1993)
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YK	AT	<u>19</u>	Wang, J.-Y., <i>et al.</i> , "Monovalent cations differ in their effects on transcription initiation from a σ -70 promoter of <i>Escherichia coli</i> ," <i>Gene</i> 196:95-98, Elsevier Science B.V. (1997)

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YK	AR	<u>20</u>	Wu, D.Y. and Wallace, R.B., "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569, Academic Press, Inc. (1989)
YK	AS	<u>20</u>	Zuckermann, R., <i>et al.</i> , "Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> 15:5305-5321, Oxford University Press (1987)
YK	AT	<u>20</u>	International Search Report for International Application No, PCT/US02/34419, mailed July 24, 2003, International Search Authority/USA, Washington, D.C.

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YK	AR	<u>21</u>	Co-pending US Application No. 10/488,971, inventor Hanna, M., filed March 9, 2004 (NOT PUBLISHED)
YK	AS	<u>21</u>	Co-pending US Application No. 10/976,240, inventor Hanna, M., filed October 24, 2004 (NOT PUBLISHED)
YK	AT	<u>21</u>	Co-pending International Application No. PCT/US2004/035740, inventor Hanna, M., filed October 29, 2004 (NOT PUBLISHED)

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